

**IN THE CLAIMS**

1. (Currently amended) A method for formulating a plant nutrition, comprising steps of:

(a) providing a culture solution with a culture medium, a non-woody fiber plant, and a suspension of a microorganism;

(b) fermenting said culture solution ~~for preparing so as to prepare~~ a biopulp;

(c) filtrating said biopulp ~~for preparing so as to prepare~~ a filtrate; and

(d) formulating said filtrate ~~for preparing so as to prepare~~ said plant nutrition by adding an additive, wherein said additive ~~is one selected from a group consisting of a polymer,~~ includes a nitrogen source, an alcohol, and a Hoagland's solution, ~~and a mixture thereof.~~

2. (Cancelled)

3. (Previously presented) The method as claimed in claim 1, wherein said non-woody fiber plant is pretreated by one selected from a group consisting of a relatively higher pressure treatment under a relatively higher temperature, a steamed treatment under a relatively higher temperature, a boiled treatment under a relatively higher temperature, a fumigatory treatment and a soaked treatment under a room temperature.

4. (Previously presented) The method as claimed in claim 1, wherein said microorganism is one selected from a group consisting of a *Bacillus licheniformis*

(PMBP-m5), a *Bacillus subtilis* (PMBP-m6) and a *Bacillus amyloliquefaciens* (PMBP-m7).

5. (Previously presented) The method as claimed in claim 1, wherein said microorganism has an inoculation concentration ranged from 0 to  $10^8$  cfu/ml.

6. (Previously presented) The method as claimed in claim 1, wherein said fermenting process is proceeded at a temperature ranged from 20 to 50°C.

7. (Previously presented) The method as claim in claim 1, wherein said fermenting process is proceeded over 0~10 days.

8. (Previously presented) The method as claimed in claim 1, wherein said step (b) further comprises a step of boiling said biopulp for 25~40 minutes under 120~150°C.

9. (Original) The method as claimed in claim 8, wherein said biopulp further comprises 0~4% (w/v) CaO when being boiled.

10. (Original) The method as claim in claim 1, wherein said biopulp is screened by 18~300 meshes.

11. (Original) The method as claimed in claim 1, wherein said filtrate is diluted by a volume of 10~100 times for being applied to a crop cultivation.

12. (Cancelled)

13. (Previously presented) The method as claimed in claim 1, wherein said improved plant nutrition is diluted by a volume of 250~1000 times for being applied to a crop cultivation.

14-23. (Cancelled)

24. (Currently amended) The method as claimed in claim [[1]] 27, wherein said polymer is one selected from a group consisting of seaweed powder, an alginic acid, and alginic salt, a polyelectrolyte, a corn wheat bran, and a starch.

25. (Previously presented) The method as claimed in claim 1, wherein said filtrate is 100 parts by volume, said polymer is added thereto by a volume of 0.1~5 parts, said nitrogen source is added thereto by a volume of 0.01~1 parts, said alcohol is added thereto by a volume of 0.1~5 parts, and said Hoagland's solution is added thereto by a volume of 0.1~5 parts.

26 (Previously presented) The method as claimed in claim 1, wherein said nitrogen source is a urea.

27. (New) The method as claimed in claim 1, wherein said additive further includes a polymer.